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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/885,471	06/20/2001	Sang-Wook Cheong	5-1	3875
75	90 12/23/2003		EXAM	INER
Docket Administrator (Room 3J-219) Lucent Technologies Inc. 101 Crawfords Corner Road			FULLER, ERIC B	
			ART UNIT	PAPER NUMBER
Holmdel, NY 07733			1762	
			DATE MAILED: 12/23/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/885,471	CHEONG ET AL.	W.
Office Action Summary	Examiner	Art Unit	
	Eric B Fuller	1762	
The MAILING DATE of this communication ε Period for Reply	ppears on the cover sheet wi	th the correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thirt od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. ITHS from the mailing date of this commu-	nication.
1) Responsive to communication(s) filed on 11	Sentember 2003		
	is action is non-final.		
Since this application is in condition for allow closed in accordance with the practice unde	vance except for formal matt		rits is
Disposition of Claims			
 4) Claim(s) 8-18 is/are pending in the application 4a) Of the above claim(s) is/are withdenset is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 8-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and 	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to be	oy the Examiner.	
Applicant may not request that any objection to the	= : :	, ,	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the Priority under 35 U.S.C. §§ 119 and 120	Examiner. Note the attached	Office Action or form PTO-1:	52.
	ian miarity under 25 U.S.C. S	2 110(=) (d) == (4)	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume 3. Acknowledgment is made of a claim for domes since a specific reference was included in the factor of the priority docume and the foreign language priority and the foreign language priority acknowledgment is made of a claim for domes and the factor of the foreign language priority acknowledgment is made of a claim for domes and the factor of the foreign language priority acknowledgment is made of a claim for domes and the factor of	nts have been received. nts have been received in Apiority documents have been au (PCT Rule 17.2(a)). st of the certified copies not estic priority under 35 U.S.C. stirst sentence of the specifical provisional application has bestic priority under 35 U.S.C.	pplication No received in this National Stag received. § 119(e) (to a provisional app ation or in an Application Data een received. §§ 120 and/or 121 since a sp	lication) a Sheet. ecific
reference was included in the first sentence of	the specification or in an Ap	plication Data Sheet. 37 CFR	1.78.
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 8-11, and 13-18 are rejected under 35 U.S.C. 102(a) as being anticipated by Brinkman et al.

Brinkman teaches pulsed laser deposition of a solid target that comprises magnesium diboride powder that has been sintered into a solid pellet (paragraph bridging pages 1 and 2). A pulsed laser is used to eject magnesium diboride from this a layer of magnesium diboride is grown on the surface of a substrate (page 2, 3rd paragraph). The chamber pressure and layer thickness are within the applicant's claimed ranges (2nd page, 4th paragraph). It is the position of the examiner that as the same deposition steps are used in the claimed invention and the reference, the lattice constants being matched (applicant's claim 9) is inherent to the process taught by the reference.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brinkman et al., as applied to claim 8 above, and further in view of Koura (US 4,975,417).

Brinkman teaches the limitations of claim 1, but fails to explicitly teach using substrates besides silicon. However, Koura teaches that silicon compounds are commonly used as the substrate on which a superconductor is formed (column 2, lines 50-55). Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to utilize silicon compounds, such as SiC, in the process taught by Brinkman, as Koura teaches that silicon compounds are commonly used as a substrate for superconductors and Brinkman teaches the deposited film is used as a superconductor.

Response to Arguments

The declaration filed on September 16, 2003 under 37 CFR 1.131 has been considered but is ineffective to overcome the Brinkman reference.

The evidence submitted is insufficient to establish diligence from a date prior to the date of reduction to practice of the Brinkman reference to either a constructive reduction to practice or an actual reduction to practice.

Under 37 CFR 1.131, the critical period in which diligence must be shown begins just prior to the effective date of the reference or activity and ends with the date of a reduction to practice, either actual or constructive (i.e., filing a United States patent

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The 37 CFR 1.131 affidavit or declaration must contain an allegation that the acts relied upon to establish the date prior to the reference or activity were carried out in this country or in a NAFTA country or WTO member country. See 35 U.S.C. 104.

In the period in question, the inventors have only asserted that they had met at least once with Mr. McCabe. No evidence has been provided and diligence has not been shown for the critical period. Additionally, the declaration does not contain an allegation that the acts of conception and diligence were carried out in this country or in a NAFTA or WTO member country.

Since the declaration is ineffective to overcome the Brinkman reference, the examiner maintains the rejection of record.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B Fuller whose telephone number is (703) 308-6544. The examiner can normally be reached on Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive Beck, can be reached at (703) 308-2333. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

EBF

December 11, 2003

SHRIVE P. BECK SUPERVISORY PATENT EXAMPLER TECHNOLOGY CENTER 1700